

What is claimed is:

1. A snap-fit constructible elevator hall fixture assembly comprising:
  - (a) a wall plate;
  - (b) a bezel;
  - (c) a first snap fit coupling attaching the wall plate to the bezel;
  - (d) a hall fixture;
  - (e) a second snap fit coupling attaching the hall fixture to the bezel, the hall fixture disposed in the opening of the bezel.
2. The assembly of claim 1, further comprising a decorative faceplate having an opening, the faceplate attached to the wall plate and the hall fixture extending through the faceplate opening.
3. The assembly of claim 1, wherein the hall fixture is a directional lantern.
4. The assembly of claim 3, wherein the directional lantern comprises:
  - (a) a reflector having an opening;
  - (b) a lens disposed in the reflector opening;
  - (c) a printed circuit board with light emitting diodes for lighting the lens; and
  - (d) a third snap-fit coupling attaching the printed circuit board to the reflector.
5. The assembly of claim 1, wherein the hall fixture is a hall-call push button.
6. The assembly of claim 5, wherein the hall-call push button comprises:
  - (a) a push button extending into the bezel; and
  - (b) an electrical switch device, the second snap fit coupling attaching the electrical switch device to the push button.
7. The assembly of claim 1, having a plurality of bezels, the number of bezels corresponding to the number of hall fixtures.
8. A snap-fit constructible elevator hall fixture assembly comprising:
  - (a) a wall plate having a front surface, a back surface, and an opening, the perimeter of the opening having a plurality of grooves on the front and back surfaces;

- (b) a bezel having an opening, a front surface, a back surface, and a plurality of protrusions on the front and back surface for engaging two or more grooves in the wall plate to form snap-fit couple between the bezel and the wall plate;
- (c) a hall fixture attached to the bezel and having a portion within the opening of the bezel.

9. A snap-fit constructible elevator hall fixture assembly comprising:

- (a) a wall plate having a hole in its top edge and a hole in its bottom edge for attaching the wall plate to an electrical wall box; the wall plate having a front surface, a back surface, and a recessed portion on the front surface, the recessed portion having an opening; the perimeter of the opening on the front surface having a plurality of grooves, and the perimeter of the opening on the back surface having a plurality of grooves;
- (b) a decorative faceplate having a faceplate opening, a hole in the top edge of the faceplate, and a hole in the bottom edge of the faceplate; the top edge hole of the faceplate attached to the top edge hole of the wall plate, and the bottom edge hole of the faceplate attached to the bottom edge hole of the wall plate; the faceplate mounted into the recessed portion of the wall plate;
- (c) a bezel having an opening, a front surface, a back surface, and struts vertically protruding from the back surface of the bezel, the front surface having a plurality of protrusions on its perimeter engaged in the front surface grooves in the recessed portion of the wall plate, the back surface of the bezel having a plurality of protrusions on its perimeter engaged in the back surface grooves in the wall plate, the protrusions and grooves forming a snap-fit coupling between the bezel and the wall plate.
- (d) a reflector having an opening, vertically protruding legs, vertically extending rib protrusions on the inner wall of the reflector, a rim, and sockets on the outer periphery of the reflector for receiving the bezel struts, wherein the bezel struts are snap-fit coupled to the reflector sockets;

- (e) a lens having a base and a body attached to the base, wherein the body of the lens is engaged to the reflector rib protrusions securing the lens to the reflector, the lens body extending through the bezel opening, the faceplate opening, and the reflector opening; and the lens base fastened by rim of the reflector; and
- (f) a printed circuit board having openings and superluminescent diodes for illuminating the lens, wherein the circuit board openings are snap-fit coupled to the reflector legs.

10. The hall fixture assembly according to claim 9, wherein the faceplate opening, the bezel opening, and the lens body are shaped in an up-arrow direction to show the movement of the elevator.

11. The hall fixture assembly according to claim 9, wherein the faceplate opening, the bezel opening, and the lens body are shaped in a down-arrow direction to show the movement of the elevator.

12. The hall fixture assembly according to claim 9, wherein the wall plate is vertically mounted to the electrical wall box.

13. The hall fixture assembly according to claim 9, wherein the wall plate is horizontally mounted to the electrical wall box.

14. A snap-fit constructible elevator hall fixture assembly comprising:

- (a) a wall plate having a hole in its top edge and a hole in its bottom edge for attaching the wall plate to an electrical wall box; the wall plate having a front surface, a back surface, and a recessed portion on the front surface, the recessed portion having an opening; the perimeter of the opening on the front surface having a plurality of grooves, and the perimeter of the opening on the back surface having a plurality of grooves;
- (b) a decorative faceplate having a faceplate opening, a hole in the top edge of the faceplate, and a hole in the bottom edge of the faceplate; the top edge hole of the faceplate attached to the top edge hole of the wall plate, and the bottom edge hole of the faceplate attached to the bottom edge hole of the wall plate; the faceplate mounted into the recessed portion of the wall plate;
- (c) a bezel having an opening, a front surface, and a back surface, the front surface having a plurality of protrusions on its perimeter, the front

surface protrusions engaged in the front surface grooves in the recessed portion of the wall plate, the back surface of the bezel having a plurality of protrusions on its perimeter, the bezel back surface protrusions engaged in the back surface grooves in the recessed portion of the wall plate, the protrusions and grooves forming a snap-fit coupling between the bezel and the wall plate;

- (d) a push button having a body, struts extending from the body, a shoulder, and threads on the outer periphery of the body extending around the circumference of the body; the push button extending through the bezel opening and the faceplate opening, the shoulder abutting a portion of the faceplate surrounding the faceplate opening;
- (e) a locking nut having threads on its inner periphery, the threads on the locking nut twist-coupled to the threads on the push button threads, the nut abutting a portion of the back surface of the bezel; and
- (f) an electrical switch device having slots, an activation switch, and a light emitting diode; the slots are snap-fit coupled to the struts of the push button, the activation switch is activated when the push button is pressed onto the activation switch, and the light emitting diode illuminates the push button when the activation switch is pressed.

15. The hall fixture assembly according to claim 14, wherein the wall plate is vertically mounted to the electrical wall box.

16. The hall fixture assembly according to claim 14, wherein the wall plate is horizontally mounted to the electrical wall box.

17. The hall fixture assembly according to claim 14, further comprising:

- (a) an emergency-service faceplate having an opening and a hole in its top edge, the top edge hole of the emergency-service faceplate is attached to the top edge hole of the decorative faceplate;
- (b) a printed circuit board bezel having an opening, a front surface, a back surface, and struts vertically protruding from the back surface of the bezel, the front surface having a plurality of protrusions on its perimeter snap-fit coupled to the front surface grooves in the recessed portion of the wall plate, the back surface of the circuit board bezel having a plurality of protrusions on its perimeter snap-fit coupled to the back surface grooves in the wall plate;

- (c) a key-switch having a body and a shoulder, the body extending through a bezel opening, a decorative faceplate opening, and the emergency-faceplate opening, the shoulder abutting a portion of the emergency-faceplate surrounding the emergency-faceplate opening;
- (d) a switch nut twist-coupled to the key-switch; and
- (e) a printed circuit board having openings and superluminescent diodes for illuminating the emergency-service faceplate, wherein the circuit board openings are snap-fit coupled to the struts on the circuit board bezel.

**18. A snap-fit constructible elevator hall fixture assembly comprising:**

- (a) a wall plate having a hole in its top edge and a hole in its bottom edge for attaching the wall plate to an electrical wall box; the wall plate having a front surface, a back surface, and a recessed portion on the front surface, the recessed portion having an opening; the perimeter of the opening on the front surface having a plurality of grooves, and the perimeter of the opening on the back surface having a plurality of grooves;
- (b) a decorative faceplate having a faceplate opening, a hole in the top edge of the faceplate, and a hole in the bottom edge of the faceplate; the top edge hole of the faceplate for attaching to the top edge hole of the wall plate, and the bottom edge hole of the faceplate for attaching to the bottom edge hole of the wall plate; the faceplate to be mounted into the recessed portion of the wall plate;
- (c) a bezel having an opening, a front surface, a back surface, and struts vertically protruding from the back surface of the bezel, the front and back surfaces of the bezel having a plurality of protrusions on the perimeter of bezel to form a snap-fit couple between the bezel and the wall plate, the protrusions on the front surface of the bezel for engaging the front surface grooves in the recessed portion of the wall plate, the protrusions on the back surface of the bezel for engaging the back surface grooves in the wall plate;
- (d) a reflector having an opening, vertically protruding legs, vertically extending rib protrusions on the inner wall of the reflector, a rim, and sockets on the outer periphery of the reflector for receiving the bezel

struts, wherein the bezel struts are for snap-fit coupling to the reflector sockets;

- (e) a lens having a base and a body attached to the base, wherein the body of the lens is to be engaged to the reflector rib protrusions to secure the lens to the reflector, the lens body is to be extended through the bezel opening, the faceplate opening, and the reflector opening, and the lens base to be fastened by rim of the reflector; and
- (f) a printed circuit board having openings and superluminescent diodes for illuminating the lens, wherein the circuit board openings are for snap-fit coupling to the reflector legs.

19. The hall fixture assembly according to claim 18, wherein the faceplate opening, the bezel opening, and the lens body are shaped in an up-arrow direction to show the movement of the elevator.

20. The hall fixture assembly according to claim 18, wherein the faceplate opening, the bezel opening, and the lens body are shaped in an down-arrow direction to show the movement of the elevator.

21. The hall fixture assembly according to claim 18, wherein the wall plate is to be vertically mounted to the electrical wall box.

22. The hall fixture assembly according to claim 18, wherein the wall plate is to be horizontally mounted to the electrical wall box.

23. A snap-fit constructible elevator hall fixture assembly comprising:

- (a) a wall plate having a hole in its top edge and a hole in its bottom edge for attaching the wall plate to an electrical wall box; the wall plate having a front surface, a back surface, and a recessed portion on the front surface, the recessed portion having an opening; the perimeter of the opening on the front surface having a plurality of grooves, and the perimeter of the opening on the back surface having a plurality of grooves;
- (b) a decorative faceplate having a faceplate opening, a hole in the top edge of the faceplate, and a hole in the bottom edge of the faceplate; the top edge hole of the faceplate for attaching to the top edge hole of the wall plate, and the bottom edge hole of the faceplate for attaching to the bottom edge hole of the wall plate; the faceplate to be mounted into the recessed portion of the wall plate;

- (c) a bezel having an opening, a front surface, and a back surface, the front and back surfaces of the bezel having a plurality of protrusions on the perimeter of bezel to form a snap-fit couple between the bezel and the wall plate, the protrusions on the front surface of the bezel for engaging the front surface grooves in the recessed portion of the wall plate, the protrusions on the back surface of the bezel for engaging the back surface grooves in the wall plate;
- (d) a push button having a body, struts extending from the body, a shoulder, and threads on the outer periphery of the body extending around the circumference of the body; the push button to be extended through the bezel opening and the faceplate opening, the shoulder to abut a portion of the faceplate surrounding the faceplate opening;
- (e) a locking nut having threads on its inner periphery, the threads on the locking nut to be twist-coupled to the threads on the push button threads, the nut to abut a portion of the back surface of the bezel; and
- (f) an electrical switch device having slots, an activation switch, and a light emitting diode; the slots for snap-fit coupling to the struts of the push button, the activation switch to be activated when the push button is pressed onto the activation switch, and the light emitting diode to illuminate the push button when the activation switch is pressed.

24. The hall fixture assembly according to claim 23, further comprising:

- (a) an emergency-service faceplate having an opening and a hole in its top edge, the top edge hole of the emergency-service faceplate for attaching to the top edge hole of the decorative faceplate;
- (b) a printed circuit board bezel having an opening, a front surface, a back surface, and struts vertically protruding from the back surface of the bezel, the front surface having a plurality of protrusions on its perimeter for snap-fit coupling to the front surface grooves in the recessed portion of the wall plate, the back surface of the circuit board bezel having a plurality of protrusions on its perimeter for snap-fit coupling to the back surface grooves in the wall plate;
- (c) a key-switch having a body and a shoulder, the body to be extended through a bezel opening, a decorative faceplate opening, and the

emergency-faceplate opening, the shoulder to abut a portion of the emergency-faceplate surrounding the emergency-faceplate opening;

(d) a switch nut for twist-coupling to the key-switch; and

(e) a printed circuit board having openings and superluminescent diodes for illuminating the emergency-service faceplate, wherein the circuit board openings are for snap-fit coupling to the struts on the circuit board bezel.

25. The hall fixture assembly according to claim 23, wherein the wall plate is to be vertically mounted to the electrical wall box.

26. The hall fixture assembly according to claim 23, wherein the wall plate is to be horizontally mounted to the electrical wall box.